

JP U 7-28158

\* NOTICES \*

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

CLAIMS

---

[Utility model registration claim]

[Claim 1] It is a periphery at the winding core pipe's which connects the flange board of a right-and-left couple at the center. And it sets to the machine reel which twisted the whoop-like packing object for electronic parts between both the aforementioned flange boards so that the covering tape in the whoop-like packing object concerned might become outside. To the flange board currently steadily located in an opposite side among both the aforementioned flange boards with the feed hole of the longitudinal unilateral edge in the aforementioned whoop-like packing object The machine reel of the whoop-like packing object for electronic parts characterized by preparing the slitting section for inserting the termination of the covering tape in the aforementioned whoop-like packing object in two or more places which met the peripheral face of concerned one flange.

---

[Translation done.]

\* NOTICES \*

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

DETAILED DESCRIPTION

---

[Detailed explanation of a design]

[0001]

[Industrial Application]

As shown in drawing 1 and drawing 2, this design on the carrier tape 2 which equipped the unilateral edge of a longitudinal direction with the feed hole 3 at intervals of the pitch suitably along with the longitudinal direction. The part stowage 4 is suitably formed at intervals of a pitch along with the longitudinal direction of the carrier tape 2 concerned. Each in this each part article stowage 4 is loaded with every one electronic parts 5, such as a chip resistor or diode. In the whoop-like packing object 1 which sticks and grows the covering tape 6 into the upper surface of the aforementioned carrier tape 2 so that the covering tape 6 concerned may close the aforementioned each part article stowage 3, it is related with the machine reel to this whoop-like packing object 1.

[0002]

[The technical problem which a Prior art and a design tend to solve]

While the whoop-like packing object 1 which it twisted around it to the machine reel as the covering tape 6 became outside is twisted and holds a state by sticking an adhesive tape to the termination of the covering tape 6 in the whoop-like packing object concerned, it is made to let out the aforementioned whoop-like packing object 1 from a machine reel by exfoliating the aforementioned adhesive tape conventionally.

[0003]

However, since it had to be made to perform attachment of the adhesive tape to the termination of the covering tape 6 in the aforementioned whoop-like packing object 1, and ablation of the adhesive tape from the whoop-like packing object 1 in the narrow part between both the flange boards of the right-and-left couple in a machine reel, there was a problem referred to as needing great trouble for the attachment and ablation.

[0004]

And when exfoliating the aforementioned adhesive tape, when the covering tape 6 in the whoop-like packing object 1 exfoliated too much together with an adhesive tape, the problem said that it jumps out and disappearing occur frequently also had electronic parts 5.

This design makes it a technical technical problem to offer the machine reel which enabled it to discriminate easily the direction of the feed hole in the rolled-round whoop-like packing object while solving these problems. [0005]

[Means for Solving the Problem]

In order to attain this technical technical problem, this design is a periphery at the winding core pipe's which connects the flange board of a right-and-left couple at the center. And it sets to the machine reel which twisted the whoop-like packing object for electronic parts between both the aforementioned flange boards so that the covering tape in the whoop-like packing object concerned might become outside. To the flange board currently steadily located in an opposite side among both the aforementioned flange boards with the feed hole of the longitudinal unilateral edge in the

aforementioned whoop-like packing object It was made the composition referred to as preparing the slitting section for inserting the termination of the covering tape in the aforementioned whoop-like packing object in two or more places which met the peripheral face of concerned one flange.

[0006]

[An operation and effect] of a design

In this composition, since the termination of the covering tape concerned can be stopped by inserting the termination of the covering tape in this whoop-like packing object in the one slitting section among each slitting section in one flange board after twisting a whoop-like packing object to a machine reel, it can hold in the state where the whoop-like packing object was twisted to the machine reel.

[0007]

Moreover, it can let out a whoop-like packing object from a machine reel by the ability canceling the stop to the termination of the covering tape concerned by drawing out the termination of the aforementioned covering tape from the aforementioned slitting section.

therefore, while according to this design twisting the whoop-like packing object twisted to the machine reel, and holding it in the state and its thing [ twisting and letting out from a state ] are very alike and being able to do them easily, it can prevent certainly that disappearance of electronic parts occurs by excessive ablation of a covering tape in that case

[0008]

And it also has the effect referred to as that while is located in an opposite side and the feed hole of the longitudinal unilateral edge in the aforementioned whoop-like packing object can show the direction of the feed hole in the whoop-like packing object twisted around the machine reel to a flange board among both the flange boards in a machine reel by inserting the termination of a covering tape in this slitting section by [ said ] having cut deeply and having prepared the section.

[0009]

[Example]

Hereafter, the example of this design is explained about the drawing of drawing 3 and drawing 4 .

In this drawing, a sign 10 shows a machine reel. this machine reel 10 It is constituted by the flange boards 11 and 12 of a right-and-left couple, and the winding core pipe 13 which connects between both these flange boards 11 and 12 in one at the center. on the periphery of the winding core pipe 13 And among both the aforementioned flange boards 11 and 12, the whoop-like packing object 1 for electronic parts constituted as shown in aforementioned drawing 1 and drawing 2 is twisted so that the covering tape 6 in the whoop-like packing object 1 concerned may become outside.

[0010]

And among both the aforementioned flange boards 11 and 12, in the feed hole 3 of the longitudinal unilateral edge in the aforementioned whoop-like packing object 1, while is located in an opposite side and the slitting section 14 for inserting the termination of the covering tape 6 in the aforementioned whoop-like packing object 1 in the flange board 11 at the periphery is formed in two or more [ in alignment with the circumferencial direction ].

After twisting the whoop-like packing object 1 to a machine reel 10 in this composition, By inserting the termination of the covering tape 6 in this whoop-like packing object 1 in the one slitting section 14 among each slitting section 14 in one flange board 11 Since the termination of the covering tape 6 concerned can be stopped, while being able to hold in the state where the whoop-like packing object 1 was twisted to the machine reel 10 The termination of the covering tape 6 inserted in the one aforementioned slitting section 14 can show the direction of the feed hole 3 in the whoop-like packing object 1 twisted around the machine reel 10.

[0011]

Moreover, it can let out the whoop-like packing object 1 from a machine reel 10 by the ability canceling the stop to the termination of the covering tape 6 concerned by drawing out the termination of the aforementioned covering tape 6 from the aforementioned slitting section 14.

By the way, it sets to the automatic mounting equipment referred to as loading with the electronic parts 5 in each part article stowage 4 in this kind of whoop-like packing object 1 automatically to a printed

circuit board etc. It attaches so that the feed hole 3 in the whoop-like packing object 1 may let out the machine reel 10 which twisted the whoop-like packing object 1 beforehand to the anchoring shaft 16 which projects from the delivery mechanism 15 of the whoop-like packing object 1 and it may be located in a mechanism 15 side.

[0012]

Also in this case, as described above, cut deeply to the flange board 11 and while it is located in an opposite side among both the flange boards 11 and 12 in a machine reel 10 in the feed hole 3 of the longitudinal unilateral edge in the aforementioned whoop-like packing object 1 forms the section 14. By inserting the termination of the covering tape 6 in the whoop-like packing object 1 in this slitting section 14 While the directivity in the case of attaching a machine reel 10 to the anchoring shaft 16 in the aforementioned delivery mechanism 15 can be shown It is a basis in the state where the machine reel 10 was attached to the aforementioned delivery mechanism 15, and drawing from the slitting section 14 of the aforementioned covering tape 6 can be performed easily.

---

[Translation done.]

\* NOTICES \*

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

DESCRIPTION OF DRAWINGS

---

[Brief Description of the Drawings]

[Drawing 1] some whoop-like packing objects -- it is a notch perspective diagram

[Drawing 2] It is II-II \*\*\*\*\* of drawing 1 .

[Drawing 3] It is the perspective diagram of the machine reel by the example of this design.

[Drawing 4] It is IV-IV \*\*\*\*\* of drawing 3 .

[Description of Notations]

1 Whoop-like Packing Object

2 Carrier Tape

3 Feed Hole

4 Part Stowage

5 Electronic Parts

6 Covering Tape

10 Machine Reel

11 12 Flange board

13 Winding Core Pipe

14 Slitting Section

---

[Translation done.]

\* NOTICES \*

Japan Patent Office is not responsible for any damages caused by the use of this translation.

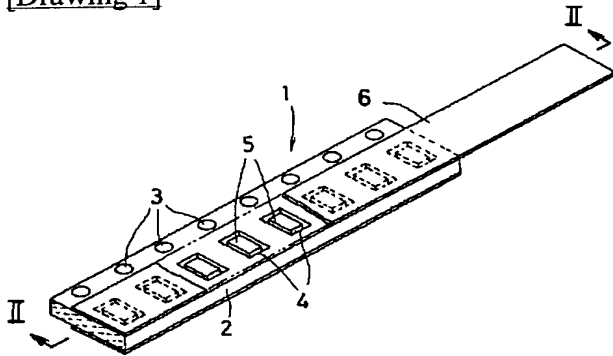
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

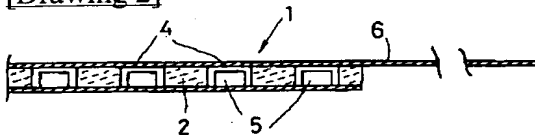
DRAWINGS

---

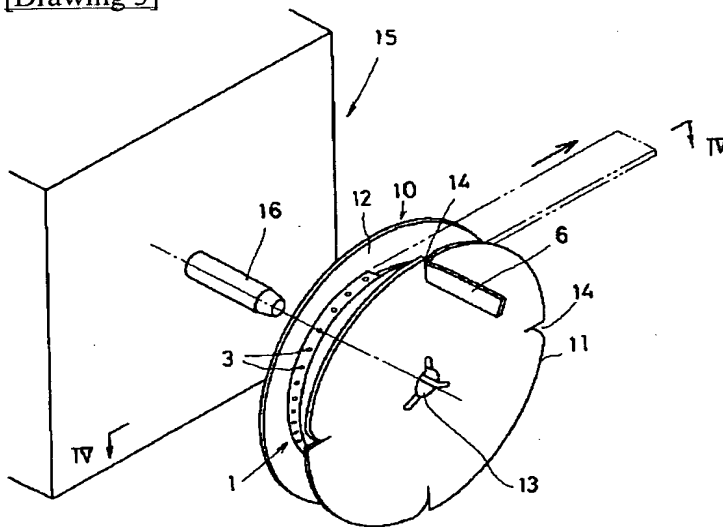
[Drawing 1]



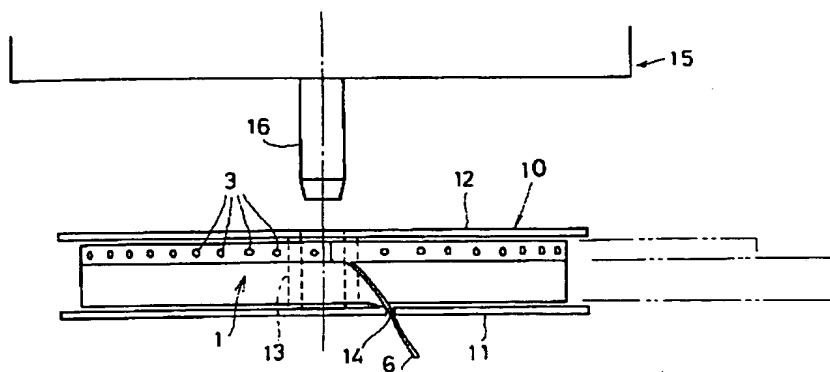
[Drawing 2]



[Drawing 3]



[Drawing 4]



---

[Translation done.]